WHAT IS CLAIMED IS:

•	1. It modified fow indicedial weight hepath (WLWWH) compound
2	having a molecular weight of about 5,000 Daltons to about 9,000 Daltons.
1	2. The MLMWH compound in accordance with claim 1, wherein
2	said MLMWH compound (1) inhibits fibrin-bound thrombin and fluid-phase thrombin by
3	catalyzing antithrombin, and (2) inhibits thrombin generation by catalyzing factor Xa
4	inactivation by antithrombin.
1	. 3. The MLMWH compound in accordance with claim 1, wherein
2	said MLMWH compound has an anti-factor IIa activity of about 40 U/mg to about
3	100 U/mg, and an anti-factor Xa activity of about 90 U/mg to about 150 U/mg.
1	4. The MLMWH compound in accordance with claim 3, wherein
2	said MLMWH compound has an anti-factor IIa activity of about 60 U/mg to about
3	75 U/mg, and an anti-factor Xa activity of about 100 U/mg to about 125 U/mg.
1 .	5. The MLMWH compound in accordance with claim 4, wherein
2	said MLMWH compound has an anti-factor IIa activity of about 65 U/mg, and an anti-
3	factor Xa activity of about 115 U/mg.
1	6. The MLMWH compound in accordance with claim 1, wherein
2	said MLMWH compound has a molecular weight of about 5,400 Daltons to about 8,000
3	Daltons.
1	7. The MLMWH compound in accordance with claim 1, wherein
2	said MLMWH compound has a molecular weight of about 5,800 Daltons to about 7,000
3	Daltons.
1	8. The MLMWH compound in accordance with claim 1, wherein
2	said MLMWH compound has a molecular weight of about 6,000 Daltons.

1	9. A method for treating a thrombotic condition in a mammal, said
2	method comprising administering to said mammal a pharmacologically acceptable dose of
3	a modified low molecular weight heparin (MLMWH) compound having a molecular
4	weight of about 5,000 Daltons to about 9,000 Daltons.
	en e
1	10. The method in accordance with claim 9, wherein said MLMWH
2	compound (1) inhibits fibrin-bound thrombin and fluid-phase thrombin by catalyzing
3	antithrombin, and (2) thrombin generation by catalyzing factor Xa inactivation by
4	antithrombin.
1	11. The method in accordance with claim 9, wherein said MLMWH
2	compound has an anti-factor IIa activity of about 40 U/mg to about 100 U/mg, and an
3	anti-factor Xa activity of about 90 U/mg to about 150 U/mg.
1	12. The method in accordance with claim 11, wherein said MLMWH
2	compound has an anti-factor IIa activity of about 60 U/mg to about 75 U/mg, and an
3	anti-factor Xa activity of about 100 U/mg to about 125 U/mg.
1	13. The method in accordance with claim 12, wherein said MLMWH
2	compound has an anti-factor IIa activity of about 65 U/mg, and an anti-factor Xa activity
3	of about 115 U/mg.
1	14. The method in accordance with claim 9, wherein said MLMWH
2	compound has a molecular weight of about 5,400 Daltons to about 8,000 Daltons.
1	15. The method in accordance with claim 9, wherein said MLMWH,
2 .	wherein said MLMWH compound has a molecular weight of about 5,800 Daltons to
3	about 7,000 Daltons.
1	16. The method in accordance with claim 9, wherein said MLMWH
2	compound has a molecular weight of about 6,000 Daltons.

1	17. The method in accordance with claim 9, wherein said thrombotic
2	condition is arterial thrombosis.
1	18. The method in accordance with claim 9, wherein said thrombotic
2	condition is coronary artery thrombosis.
1	19. The method in accordance with claim 9, wherein said thrombotic
2.	condition is venous thrombosis.
1	20. The method in accordance with claim 9, wherein said thrombotic
2	condition is pulmonary embolism.
1	21. The method in accordance with claim 9, wherein said MLMWH
2	compound is administered by injection.
1	22. A method of preventing the formation of a thrombus in a mammal
2	at risk of developing thrombosis, said method comprising administering to said mammal
3	a pharmacologically acceptable dose of a modified low molecular weight heparin
4	(MLMWH) compound having a molecular weight of about 5,000 Daltons to about 9,000
5	Daltons.
1	23. The method in accordance with claim 22, wherein said MLMWH
2	compound (1) inhibits fibrin-bound thrombin and fluid-phase thrombin by catalyzing
3	antithrombin, and (2) thrombin generation by catalyzing factor Xa inactivation by
4	antithrombin.
1	24. The method in accordance with claim 22, wherein said MLMWH
2	compound has an anti-factor IIa activity of about 40 U/mg to about 100 U/mg, and an
3	anti-factor Xa activity of about 90 U/mg to about 150 U/mg.
1	25. The method in accordance with claim 24, wherein said MLMWH
2	compound has an anti-factor IIa activity of about 60 U/mg to about 75 U/mg, and an
3	anti-factor Xa activity of about 100 U/mg to about 125 U/mg.

1	26. The method in accordance with claim 25, wherein said MLMWH
2	compound has an anti-factor IIa activity of about 65 U/mg, and an anti-factor Xa activity
3	of about 115 U/mg.
1	27. The method in accordance with claim 22, wherein said MLMWH
2	compound has a molecular weight of about 5,400 Daltons to about 8,000 Daltons.
1	28. The method in accordance with claim 22, wherein said MLMWH,
2	wherein said MLMWH compound has a molecular weight of about 5,800 Daltons to
3	about 7,000 Daltons.
1	29. The method in accordance with claim 22, wherein said MLMWH
2	compound has a molecular weight of about 6,000 Daltons.
1	30. The method in accordance with claim 22, wherein said mammal is
2	at increased risk of developing a thrombus due to a medical condition which disrupts
3	hemostasis.
1	31. The method in accordance with claim 30, wherein said medical
2	condition is coronary artery disease.
1	32. The method in accordance with claim 30, wherein said medical
2	condition is atherosclerosis.
1	33. The method in accordance with claim 22, wherein said mammal is
2	at increased risk of developing a thrombus due to a medical procedure.
1	34. The method in accordance with claim 33, wherein said medical
2	procedure is cardiac surgery.
1	35. The method in accordance with claim 34, wherein said medical
2	procedure is cardiopulmonary bypass.

1	36. The method in accordance with claim 33, wherein said medical
2	procedure is catheterization.
1	37. The method in accordance with claim 36, wherein said
2	catheterization is cardiac catheterization.
1	38. The method in accordance with claim 33, wherein said medical
.2	procedure is atherectomy.
1	39. A method for inhibiting thrombus formation in a patient, said
2	method comprising the step of administering to the patient a pharmacologically
3	acceptable dose of a modified low molecular weight heparin (MLMWH) compound
4 .	having a molecular weight of about 5,000 Daltons to about 9,000 Daltons.
	·
1	40. The method in accordance with claim 39, wherein said MLMWH
2	compound (1) inhibits fibrin-bound thrombin and fluid-phase thrombin by catalyzing
3	antithrombin, and (2) thrombin generation by catalyzing factor Xa inactivation by
4	antithrombin.
1	41. A method for inhibiting fibrin-bound thrombin and thrombin
2	generation in a mammal, said method comprising administering to said mammal a
3	pharmacologically acceptable dose of a modified low molecular weight heparin
4	(MLMWH) compound having a molecular weight of about 5,000 Daltons to about 9,000
5 .	Daltons.
1	42. A pharmaceutical composition comprising the MLMWH
2	compound of claim 1 and a pharmaceutically acceptable carrier.
	· · · · · · · · · · · · · · · · · · ·